

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

**(19) World Intellectual Property Organization
International Bureau**



A standard linear barcode is located at the bottom of the page, spanning most of the width.

(43) International Publication Date
11 January 2001 (11.01.2001)

PCT

(10) International Publication Number
WO 01/03318 A1

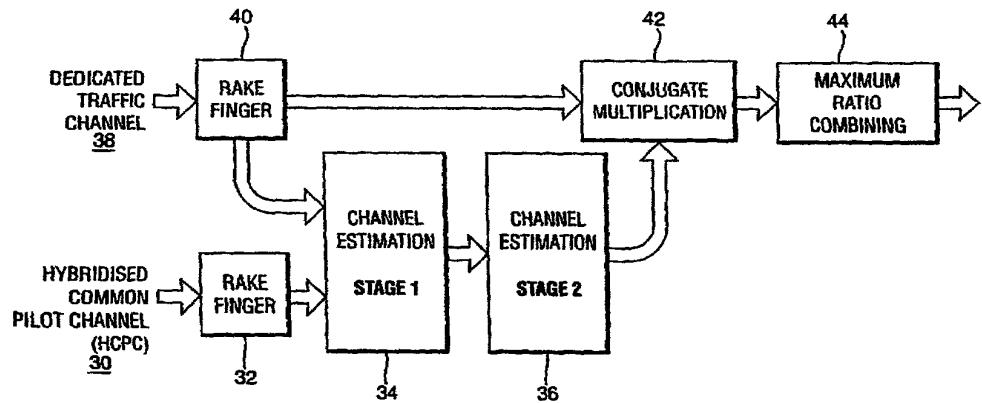
(51) International Patent Classification ⁷ :	H04B 1/707, 7/005, H04L 25/02	(72) Inventors; and (75) Inventors/Applicants (for US only): BHATOOLAUL, David, Lahiri [GB/GB]; 16 Ascham Road, Grange Park, Swindon SN5 6BG (GB). FREIBERG, Lorenz, Fred [DE/GB]; 8 Dartmoor Close, Swindon SN5 8ZR (GB).
(21) International Application Number:	PCT/EP00/05098	
(22) International Filing Date:	2 June 2000 (02.06.2000)	(74) Agents: WILLIAMS, David, J. et al.; Lucent Technologies UK Limited, 5 Mornington Road, Woodford Green, Essex IG8 0TU (GB).
(25) Filing Language:	English	
(26) Publication Language:	English	(81) Designated States (national): AU, BR, CA, CN, ID, IN, JP, KR, US.
(30) Priority Data: 99305246.3	2 July 1999 (02.07.1999) EP	Published: — <i>With international search report.</i>
(71) Applicant (for all designated States except US): LUCENT TECHNOLOGIES INC. [US/US]; 600 Mountain Avenue, Murray Hill, NJ 07974-0636 (US).	<i>For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.</i>	

Published:

— *With international search report.*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CODE DIVISION MULTIPLE ACCESS SYSTEM HAVING IMPROVED PILOT CHANNELS



WO 01/03318 A1

(57) Abstract: In a CDMA network, each mobile is arranged to combine pilot symbols from its dedicated pilot channel with pilot symbols from at least one common channel as an input to its channel impulse response sensing means. The common channel may be a BCH, a FACH or a PCH, and the pilot symbols on all such channels may be combined. The pilot energy required on each dedicated pilot channel can thereby be reduced. By communicating the quality of the received pilot symbols to a base station, the base station can reduce the energy on the dedicated pilot channel, providing a yet further saving of energy.